Lucy E Delaney

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Education

University of Illinois at Chicago	PhD, Ecology and Evolutionary Biology (Expected Fall 2021) Dissertation: *How do we understand natural selection?* Advisor: Joel S. Brown
Hunter College	MA, Molecular and Cellular Biology (2016)
John Jay College of Criminal Justice	BS, Forensic Molecular Biology (2012) Minor: Philosophy

Teaching Honors

Graduate Student Excellence in Teaching and Mentoring Award	**2021** Honorable Mention One of three PhD candidates recognized by the University for excellence in undergraduate teaching and mentoring.
Service Award	**2021** Department of Biological Sciences Graduate Service Award Awarded for Department-wide efforts to aid in online instruction.
Graduate Student Teaching Award	**2020** Department of Biological Sciences Graduate Teaching Award Awarded for excellence in teaching in Genetics. **2018** Department of Biological Sciences Graduate Teaching Award Awarded for excellence in teaching in Evolution.

University Teaching

Instructor of Record	**Foundations for the Future** *Fall 2021* Focused on the practical skills students need to develop and implement their senior Capstone (research) projects. Students begin the practice of establishing professional identities through weekly meetings and course activities that examine the various components of research, and the personal motivations that drive our work.
Course Coordinator	**Biology Colloquium** *Fall 2021* Designed to generate a sense of community, belonging, and excitement among new biology majors. Composed of newly-admitted freshman and transfers, and upper-division majors ready to take on a leadership role. I develop the course structure and oversee all activities, with emphasis on student mentoring at both levels.

Course Builder	**Biological Sciences Department** *Summer 2020–Present* Training faculty and Graduate Teaching Assistants in online pedagogy and instructional tools with written materials, tutorial videos, and drop-in hours. I assist in building courses from the ground up, and provide technical support throughout online delivery.
Graduate Teaching Assistant	During my eleven semesters as teaching assistant, I taught discussion[1] and laboratory[2] sections, designed & created instructional materials[3], held study sessions[4], and worked with students on programming skills[5] in courses ranging from introductory to advanced. I also taught online and managed Blackboard administration[6] during Covid-19.

Mendelian and Molecular Genetics[1,3,4,6]	Fall 2019–Summer 2020
General Ecology Laboratory[2,4,5]	Summer 2019
Ecology and Evolution[3,4]	Spring 2019
Evolution[3,4,5]	Fall 2017–Fall 2018
Biology of Populations and Communities[2,4]	Fall 2016–Spring 2017

Areas of Undergraduate Teaching Focus

Introductory and Intermediate Ecology & Evolutionary Biology. Basic ecological systems, ecosystem dynamics, and core evolutionary principles, with emphasis on application via introductory field experimentation and programming.

Advanced Evolutionary Biology. History & development of evolutionary theory, evolutionary mechanisms, population genetics, quantitative genetics, species & speciation, phylogenetic comparative methods, and macroevolutionary processes, with introduction to computational applications.

Genetics. Principles of genetics, gene & chromosome structure, gene expression, inheritance of complex traits, and Mendelian & non-Mendelian inheritance.

Research and Professional Skills. Principles of research, research methodologies, resume & CV building, applying to graduate schools, finding & applying for funding, professional writing & speaking, and basic computational skills.

Conference Presentations

Evolution Education Research

July 2021 at Society for the Advancement of Biology Education Research | Virtual Talk
June 2021 at Society for the Study of Evolution | Virtual Talk
March 2021 at Midwest Ecology and Evolution Conference | Best Graduate Talk
January 2021 at SABER West | Virtual Roundtable

Flowering Plant Breeding Systems

July 2021 (*upcoming*) at Botanical Society of America | Virtual Talk
July 2018 at Botanical Society of America | Rochester, MN | Poster
August 2017 at microMORPH | Arnold Arboretum of Harvard University | Talk

Publications

Delaney, Lucy E. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, *27*, 99–103.

In review

Delaney, Lucy E & Igić, B. The phylogenetic distribution and frequency of self-incompatibility in Fabaceae. *Submitted to the International Journal of Plant Sciences.*

In submission

Delaney, Lucy E. The orchids and their breeding systems. *Submitted to Orchids magazine.*

In preparation

Delaney, Lucy E & Brown, J. S. University students' explanations of adaptation. I. A framework for analysis.

Delaney, Lucy E & Brown, J. S. University students' explanations of adaptation. II. On the development of instructional materials.

Professional Activities

- **2021** Participant in the Undergraduate Mentoring Program at the Annual Evolution Conference
- **2021** Invited member of UIC student advisory group concerning graduate student teaching support
- **2020** Participant in the 2020 Chicago R Collaborative Conference
- **2018** Reviewer for International Journal of Plant Sciences (1x), Oxford Bibliographies (1x)
- **2016** General horticulture volunteer at Garfield Park Conservatory

Other Awards

- **2018** Recipient of the Biological Sciences Department Travel Award
- **2017** Accepted to NSF-funded workshop on Bayesian Analysis of Macroevolutionary Mixtures
- **2017** Recipient of the Biological Sciences Department Travel Award
- **2017** Accepted to microMORPH Plant Anatomy Summer Course at Harvard University

Selected Professional Experience

Forensic Molecular Biologist at NYC Office of Chief Medical Examiner 2012–2015

Health Research Intern at NYC Department of Health 2011-2012

Field Manager & Administrative Assistant at Working Families Party 2008-2011
New York State political action organization focused on economic justice.

Other positions 2007-2020
Like so many of our students, I held a variety of positions to support myself throughout my scholarly career: cashier, hostess, waitress, receptionist, babysitter, dog walker, bowling alley mechanic, substitute teacher, tutor, and barista. Such experiences inform my mentorship of students that face the unique challenges inherent in balancing work with the pursuit of postsecondary degrees.